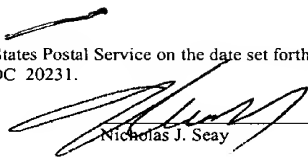


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Date of Signature and Deposit: January 21, 2003


Nicholas J. Seay

(NE)

12/B

JM

2/5/03

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Kenneth J. Kasha
Ecaterina Simion

Date: January 21, 2003

Serial Number: 09/460,324

Group Art Unit: 1661

Filed: 12/10/99

Examiner: Anne Marie Grunberg

Title: EMBRYOGENESIS AND PLANT
REGENERATION FROM MICROSPORES

File No.: 411044.90021

RECEIVED

JAN 28 2003

TECH CENTER 1600/2900

AMENDMENT

Commissioner for Patents
Washington, DC 20231

Sir:

In response to the Office Action of October 22, 2002, please amend the above identified application as follows.

In the Claims

Please cancel Claims 22-24 and 28-30 without prejudice or disclaimer.

Please amend Claims 1, 18, 31 and 32 and add new Claim 33 as follows:

-
1. (Twice Amended) A method of producing an embryo comprising the steps of:
 - (a) harvesting a microspore-containing plant segment from a donor plant;
 - (b) incubating said segment under pre-treatment conditions, and at a temperature from about 3° C to about 6°C, to maintain from about 50% to about 100% of microspores at a uninucleate stage of development;
 - (c) isolating microspores from said segment; and
 - (d) incubating said isolated microspores in an induction medium comprising arabinogalactan protein, to induce embryogenesis, thereby producing embryos.
-



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PTO/SB/17 (1-03)

Approved for use through 10/31/2003. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL
for FY 2003**

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 0.00

Complete if Known

Application Number	09/460,324
Filing Date	12/10/1999
First Named Inventor	Kenneth J. Kasha
Examiner Name	Ann Marie Grunberg
Group Art Unit	1661
Attorney Docket No.	411044.90021

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit Account Number
Deposit Account Name

17-0055

Quarles & Brady LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments☒ Charge any additional fee(s) during the pendency of this application☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Code (\$)		
1001 750	2001 375			Utility filing fee	
1002 330	2002 165			Design filing fee	
1003 520	2003 260			Plant filing fee	
1004 750	2004 375			Reissue filing fee	
1005 160	2005 80			Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
		-20** =	X	0.00
		-3*** =	X	0.00

Large Entity		Small Entity		Fee Description
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	
1202 18	2202 9			Claims in excess of 20
1201 84	2201 42			Independent claims in excess of 3
1203 280	2203 140			Multiple dependent claim, if not paid
1204 84	2204 42			** Reissue independent claims over original patent
1205 18	2205 9			** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Code (\$)		
1051 130	2050 65			Surcharge - late filing fee or oath	
1052 50	2052 25			Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130			Non-English specification	
1812 2,520	1812 2,520			For filing a request for ex parte reexamination	
1804 920	1804 920*			Requesting publication of SIR prior to Examiner action	
1805 1,840	1805 1,840*			Requesting publication of SIR after Examiner action	
1251 110	2251 55			Extension for reply within first month	
1252 410	2252 205			Extension for reply within second month	
1253 930	2253 465			Extension for reply within third month	
1254 1,450	2254 725			Extension for reply within fourth month	
1255 1,970	2255 985			Extension for reply within fifth month	
1401 320	2401 160			Notice of Appeal	
1402 320	2402 160			Filing a brief in support of an appeal	
1403 280	2403 140			Request for oral hearing	
1451 1,510	1451 1,510			Petition to institute a public use proceeding	
1452 110	2452 55			Petition to revive - unavoidable	
1453 1,300	2453 650			Petition to revive - unintentional	
1501 1,300	2501 650			Utility issue fee (or reissue)	
1502 470	2502 235			Design issue fee	
1503 630	2503 315			Plant issue fee	
1460 130	1460 130			Petitions to the Commissioner	
1807 50	1807 50			Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180			Submission of Information Disclosure Stmt	
8021 40	8021 40			Recording each patent assignment per property (times number of properties)	
1809 750	2809 375			Filing a submission after final rejection (37 CFR § 1.129(a))	
1810 750	2810 375			For each additional invention to be examined (37 CFR § 1.129(b))	
1801 750	2801 375			Request for Continued Examination (RCE)	
1802 900	1802 900			Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

SUBMITTED BY

Name (Print/Type) Nicholas J. Seay

Registration No.
(Attorney/Agent)

27,386

Complete (if applicable)

Telephone 608/251-5000

Signature

Date January 21, 2003

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